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FIRST YEAR SURVIVAL AND HEIGHTS OF SELECTED 1987 PLANTATIONS

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of Selected 1987 Plantations

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INTRODUCTION

The Timber Management Branch of the New Brunsiwck Department of Natural Resources and Energy has been assessing survival and growth in plantations on Crown Land since 1977. This report presents information on heights and first year survival of selected 1987 plantations. The plantations selected are representative of specialized crops and other crops resulting from everchanging technology. The information is presented in tabular form and interpretation of the data is left to the reader. Description of the methods used can be found in "First Year Survival and Densities of 1982 plantations", published report, ISSN 0226-9104; copies of which are available from the Timber Management Branch.

TABLE 1. SURVIVAL IN PERCENT ONE YEAR AFTER PLANTING BY SPECIES AND STOCK TYPE FOR SELECTED 1987 PLANTATIONS.

STOCK TYPE	UPSALQUITCH	NEPISIQUIT	LOWER MIRAMICHI	UPPER MIRAMICHI	KENT	QUEENS CHARLOTTE	FUNDY	YORK	CARLETON	RESTIGOUCHE TOBIQUE	PROVINCIAL AVERAGE
Black Spruce											
Winter Crop Paper Pot	-	-	80	-	-	-	-	-	-	-	80
Overwintered Paper Pot	-	-	-	-	-	-	-	-	89	94	91
Overwintered Can Am	-	-	-	-	-	-	-	98	100	97	98
Winter Crop Jiffy Pot 140	-	-	75	-	-	-	-	-	-	87	81
Overwintered Jiffy Pot 140	-	-	-	-	-	-	76	-	-	-	76
White Pine											
Winter Crop Paper Pot	-	-	-	-	-	-	-	-	-	98	98
Red Pine											
Overwintered Paper Pot	-	-	-	-	-	-	99	-	95	-	97
Larch											
Paper Pot	-	-	-	-	86	-	-	-	-	-	86
Winter Crop Paper Pot	82	98	93	-	-	89	-	88	-	-	89
Norway Spruce											
Winter Crop Paper Pot	-	-	87	-	-	-	-	-	-	-	87
Overwintered Paper Pot	-	68	-	-	-	73	-	-	-	-	70

TABLE 2. HEIGHT AT TIME OF PLANTING AND AFTER ONE YEAR BY SPECIES AND STOCK TYPE FOR SELECTED 1987 PLANTATIONS.

STOCK TYPE		UPSALQUITCH	NEPISIQUIT	LOWER MIRAMICHI	UPPER MIRAMICHI	KENT	QUEENS CHARLOTTE	FUNDY	YORK	CARLETON	RESTIGOUCHE TOBIQUE	PROVINCIAL AVERAGE
Black Spruce												
Winter Crop Paper Pot	Init*	-	-	24	-	-	-	-	-	-	-	24
	YR 1+	-	-	39	-	-	-	-	-	-	-	39
Overwintered Paper Pot	Init	-	-	-	-	-	-	-	-	13	13	13
	YR 1	-	-	-	-	-	-	-	-	25	24	24
Overwintered Can Am	Init	-	-	-	-	-	-	-	19	20	23	21
	YR 1	-	-	-	-	-	-	-	27	30	29	29
Winter Crop Jiffy Pot 140	Init	-	-	20	-	-	-	-	-	-	12	15
	YR 1	-	-	37	-	-	-	-	-	-	23	30
Overwintered Jiffy Pot 140	Init	-	-	-	-	-	-	10	-	-	-	10
	YR 1	-	-	-	-	-	-	30	-	-	-	30
White Pine												
Winter Crop Paper Pot	Init	-	-	-	-	-	-	-	-	-	10	10
	YR 1	-	-	-	-	-	-	-	-	-	20	20
Red Pine												
Overwintered Paper Pot	Init	-	-	-	-	-	-	7	-	7	-	7
	YR 1	-	-	-	-	-	-	14	-	18	-	16
Larch												
Paper Pot	Init	-	-	-	-	14	-	-	-	-	-	14
	YR 1	-	-	-	-	30	-	-	-	-	-	30
Winter Crop Paper Pot	Init	12	12	14	-	-	20	-	15	-	-	14
	YR 1	24	19	26	-	-	27	-	28	-	-	25
Norway Spruce												
Winter Crop Paper Pot	Init	-	-	11	-	-	-	-	-	-	-	11
	YR 1	-	-	23	-	-	-	-	-	-	-	23
Overwintered Paper Pot	Init	-	9	-	-	-	12	-	-	-	-	11
	YR 1	-	20	-	-	-	18	-	-	-	-	19

* Height in cm at time of planting measured after seedlings were planted.
+ Height in cm one year after planting.

TABLE 3. FIRST YEAR SURVIVAL AND HEIGHTS OF SELECTED 1987 PLANTATIONS.

License	Plantation	Site Preparation	Area (ha)	Species	Stock# Type	INITIAL YEAR Height (cm)	FIRST YEAR Survival (%)	FIRST YEAR Height (cm)
Upsalquitch	1010502878P	Shark Fin Barrels	22	tL	WCPP	12	82	24
Nepisiquit	1020102878P	C & H Plow	25	tL	WCPP	12	98	19
	1020199878P*	C & H Plow	21	nS	OWPP	9	68	20
Lower Miramichi	2030085878P	Anchor Chains	17	nS	WCPP	11	87	23
	2030119878P	C & H Plow	52	bS	WCPP	24	80	39
				bS	WCJPS	20	75	37
	2030175878P	C & H Plow	27	tL	WCPP	14	93	26
Kent	2050044878P	No-site Preparation	10	tL	PP	14	86	30
Queens Charlotte	4060160878P	Anchor Chains	17	tL	WCPP	20	89	27
	4061169988P**	Anchor Chains	19	nS	OWPP	12	73	18
Fundy	3070443878P	Anchor Chains	83	bS	OWJPS	10	76	30
	4070313878P	Anchor Chains	23	rP	OWPP	7	99	14
York	4080067878P	Anchor Chains	44	bS	OWCA	19	98	27
	4080227878P	Anchor Chains	11	tL	WCPP	15	88	28
Carleton	4090004878P	C & H Plow	51	rP	OWPP	7	95	18
	4090042878P	Anchor Chains	27	bS	OWPP	13	89	25
	4090056878P***	Anchor Chains	51	bS	OWCA	20	100	30

* High mortality due to extreme wet conditions

** Browsing was noted on many seedlings. High mortality attributed to wet conditions.

*** Frost damage was noted on a number of seedlings.

TABLE 3. CONTINUED.

License	Plantation	Site Preparation	Area (ha)	Species	Stock# Type	INITIAL YEAR Height (cm)	FIRST YEAR Survival (%)	FIRST YEAR Height (cm)
Restigouche Tobique	1100323878P	Brake	36	bS	OWPP	13	94	24
	5100309878P	Disc Trencher	33	bS	OWCA	23	97	29
	5100316878P	C & H Plow	107	bS	WCJPS	12	87	23
	5100342878P	Disc Trencher	2	wP	WCPP	10	98	20

OWCA - Overwintered Can Am
OWPP - Overwintered Paper Pot
WCPP - Winter Crop Paper Pot
PP - Paper Pot
WCJPS - Winter Crop Jiffy Pot 140
OWJPS - Overwintered Jiffy Pot 140